PENNSYLVANIA DEPARTMENT OF HEALTH 2021 – PAHAN – 574 – 06-01-ADV

Myocarditis and Pericarditis after Receipt of mRNA COVID-19 Vaccines Among Adolescents and Young Adults



DATE:	06/01/2021
TO:	Health Alert Network
FROM:	Alison Beam, JD, Acting Secretary of Health
SUBJECT:	Myocarditis and Pericarditis after Receipt of mRNA COVID-19 Vaccines
	Among Adolescents and Young Adults
DISTRIBUTION:	Statewide
LOCATION:	n/a
STREET ADDRESS:	n/a
COUNTY:	n/a
MUNICIPALITY:	n/a
ZIP CODE:	n/a

This transmission is a "Health Advisory": provides important information for a specific incident or situation; may not require immediate action.

HOSPITALS: PLEASE SHARE WITH ALL MEDICAL, PEDIATRIC, NURSING AND LABORATORY STAFF IN YOUR HOSPITAL; EMS COUNCILS: PLEASE DISTRIBUTE AS APPROPRIATE; FQHCs: PLEASE DISTRIBUTE AS APPROPRIATE; LOCAL HEALTH JURISDICTIONS: PLEASE DISTRIBUTE AS APPROPRIATE; PROFESSIONAL ORGANIZATIONS: PLEASE DISTRIBUTE TO YOUR MEMBERSHIP; LONG-TERM CARE FACILITIES: PLEASE SHARE WITH ALL MEDICAL, INFECTION CONTROL, AND NURSING STAFF IN YOUR FACILITY

The Department of Health (DOH) is releasing the following information from the Centers for Disease Control and Prevention (CDC) about myocarditis and pericarditis that has been reported following mRNA COVID-19 vaccination.

- Since April 2021, increased cases of myocarditis and pericarditis have been reported in the
 United States after mRNA COVID-19 vaccination (Pfizer-BioNTech and Moderna), particularly in
 adolescents and young adults. There has not been a similar reporting pattern observed after
 receipt of the Janssen COVID-19 vaccine (Johnson & Johnson).
- In most cases, patients who presented for medical care have responded well to medications and
 rest and had prompt improvement of symptoms. Reported cases have occurred predominantly in
 male adolescents and young adults 16 years of age and older. Onset was typically within several
 days after mRNA COVID-19 vaccination, and cases have occurred more often after the second
 dose than the first dose. CDC and its partners are investigating these reports of myocarditis and
 pericarditis following mRNA COVID-19 vaccination.
- CDC continues to recommend COVID-19 vaccination for everyone 12 years of age and older given the risk of COVID-19 illness and related, possibly severe complications, such as long-term health problems, hospitalization, and even death.
- Report all cases of myocarditis and pericarditis post COVID-19 vaccination to VAERS.
- Please call DOH at 1-877-PA-HEALTH or your local health department if you have any questions about this condition or if you have any cases you would like to report.

The Department of Health (DOH) is releasing the following information from the Centers for Disease Control and Prevention (CDC) about myocarditis and pericarditis that has been reported following mRNA COVID-19 vaccination.

Background

Myocarditis is inflammation of the heart muscle, and pericarditis is inflammation of the lining outside the heart. In both cases, the body's immune system is causing inflammation in response to an infection or some other trigger. Symptoms can include chest pain, shortness of breath, or palpitations.

The severity of cases of myocarditis and pericarditis can vary. For the cases reported after mRNA COVID-19 vaccination, most who presented to medical care have responded well to medications and rest.

Recommendations for Clinicians

- CDC continues to recommend <u>COVID-19 vaccination</u> for everyone 12 years of age and older given the greater risk of other serious complications related to COVID-19, such as hospitalization, multisystem inflammatory syndrome in children (MIS-C), or death.
- Report all cases of myocarditis and pericarditis post COVID-19 vaccination to VAERS.
- Consider myocarditis and pericarditis in adolescents or young adults with acute chest pain, shortness of breath, or palpitations. In this younger population, coronary events are less likely to be a source of these symptoms.
- Ask about prior COVID-19 vaccination if you identify these symptoms, as well as relevant other medical, travel, and social history.
- For initial evaluation, consider an ECG, troponin level, and inflammatory markers such as C-reactive protein and erythrocyte sedimentation rate. In the setting of normal ECG, troponin, and inflammatory markers, myocarditis or pericarditis are unlikely.
- For suspected cases, consider consultation with cardiology for assistance with cardiac evaluation and management. Evaluation and management may vary depending on the patient age, clinical presentation, potential causes, or practice preference of the provider.
- For follow-up of patients with myocarditis, consult the recommendations from the <u>American</u> Heart Association and the American College of Cardiology.
- It is important to rule out other potential causes of myocarditis and pericarditis. Consider consultation with infectious disease and/or rheumatology to assist in this evaluation.
 - Where available, evaluate for potential etiologies of myocarditis and pericarditis, particularly acute COVID-19 infection (e.g., PCR testing), prior SARS-CoV-2 infection (e.g., detection of SARS-CoV-2 nucleocapsid antibodies), and other viral etiologies (e.g., enterovirus PCR and comprehensive respiratory viral pathogen testing).

For more information

- NIH materials on myocarditis and pericarditis
- Frequently asked questions about VAERS reporting for COVID-19 vaccines <u>VAERS FAQs</u> (hhs.gov)
- How to report to <u>VAERS</u>

Please call DOH at 1-877-PA-HEALTH or your local health department if you have any questions about this condition or if you have any cases you would like to report.

Categories of Health Alert messages:

Health Alert: conveys the highest level of importance; warrants immediate action or attention.

Health Advisory: provides important information for a specific incident or situation; may not require immediate action.

Health Update: provides updated information regarding an incident or situation; unlikely to require immediate action.

This information is current as of June 1, 2021 but may be modified in the future. We will continue to post updated information regarding the most common questions about this subject.